SAE 2017 Government/Industry Meeting

Technical Session Schedule

As of 01/31/2017 07:40 pm

Wednesday, January 25

Cyber Security and Privacy

Session	Code:	G105
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Room 145 AB	Session Time:	10:30 a.m.
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This session will address the protection of vehicular electronic systems, communication networks, control algorithms, software, transportation system users, and underlying data from malicious attacks, unauthorized access, or manipulation. Specific topics may include design for security of automotive control systems. Also, privacy guidelines and intrusion detection and response may be covered.

Arthur Carter, National Hwy Traffic Safety Admin; Thomas Forest, General Motors LLC Organizers -

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Automotive Cybersecurity Guidelines
		Cem Hatipoglu, NHTSA
10:50 a.m.	ORAL ONLY	Heavy Vehicle Cybersecurity Activity Update
		Urban Jonson, National Motor Freight Traffic Assoc. Inc.
11:10 a.m.	ORAL ONLY	Joint ISO/SAE activity
		Lisa T. Boran, Ford Motor Company
11:30 a.m.	ORAL ONLY	Cybersecurity assurance testing workgroup
		Mike Ahmadi, Synopsys Inc.
11:50 a.m.	ORAL ONLY	SAE VESS subcommittee on Hardware Security
		Daniel J. Selke, Mercedes-Benz USA LLC
12:10 p.m.	ORAL ONLY	Pathway Towards Globally Harmonized Requirements
		Darren Handley, Department For Transport

Wednesday, January 25

Biomechanics

Session Code: G106

Room 145 AB Session Time:	2:30 p.m.
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Presentations will focus on efforts to understand the human response to impact and associated injury risk. Topics in this session may include injury assessments in various crash modes and the development of new crash dummies and human body models. This session also addresses injury prediction methodologies and laboratory test procedures. Real-world epidemiology studies (CIREN) on human injuries may also be presented

Organizers -	s - Kevin Moorhouse, NHTSA; Ravi Tangirala, Hyundai Motor Co.	
Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	Injury Patterns in Motor-Vehicle Crashes in the United States, 1998- 2014
		Kathleen DeSantis Klinich, Univ. of Michigan - Ann Arbor
2:50 p.m.	ORAL ONLY	Investigation of the Side Impact Response of Elderly Occupants
		Benjamin Kelly Shurtz, Ohio State Univ.
3:10 p.m.	ORAL ONLY	Quantification of in situ whole brain deformation under rotational impact using sonomicrometry
		Jason Lee Forman, Univ. of Virginia
3:30 p.m.	ORAL ONLY	Evaluation of the RibEye¿ Multipoint Deflection Measurement System Installed in the WorldSID-50M Dummy
		Heather Rhule, National Highway Traffic Safety Administration

3:50 p.m.	ORAL ONLY	Small female Hybrid III dummy and GHBMC human body model in frontal crashes
		Maika Katagiri, Takata
4:10 p.m.	ORAL ONLY	R&R assessment of THOR in sled environment
		Philipp Wernicke, BMW Group

Wednesday, January 25

Opening Keynote Address			
Session Code:	GIKEYNOTE1		
Room 146 AB		Session Time:	9:00 a.m.
Time	Paper No.	Title	
9:00 a.m.	ORAL ONLY	Learn More About the Christopher Grundler, L	Keynote JS Environmental Protection Agency

Wednesday, January 25

Vehicle Safety Ratings

Session Code: G100

Room 146 AB

This session explores various vehicle ratings of safety technologies, including those associated with crash avoidance and crashworthiness. Presentations will discuss the development and implementation of performance metrics. NCAP ratings (U.S., European, or Japan) may be addressed. Other standardized tests and ratings from Consumers Union, IIHS, Thatcham, and other non-governmental groups will be presented.

Session Time:

10:30 a.m.

Organizers -	Schuyler St. Lawrence, Toyota Motor North America Inc.; David S. Zuby, Insurance Institute for
	Highway Safety

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Euro NCAP 5-star requirements for 2018 and beyond
		Richard Schram, Euro NCAP
10:45 a.m.	ORAL ONLY	Vehicle Design Challenges for Crash Safety Ratings ¿ An OEM perspective
		Madan Gopal, Tesla Motors Inc.
11:00 a.m.	ORAL ONLY	Development of a global 3-D soft target for ADAS testing
		Matthew J. Avery, Thatcham Research
11:15 a.m.	ORAL ONLY	Development of Euro NCAP assessment for Lane Support Systems
		Matthew J. Avery, Thatcham Research
11:30 a.m.	ORAL ONLY	On-Vehicle Headlamp Aiming Improvements
		Michael Shin Hong, Toyota Motor Corp.
11:45 a.m.	ORAL ONLY	Implications of Proposed USNCAP Requirements
		Philipp Wernicke, BMW Group
12:15 p.m.	ORAL ONLY	Assessing consumer interest in safety ratings using iihs.org web traffic data
		Matthew L. Brumbelow, Insurance Institute for Highway Safety

Wednesday, January 25

Connected Vehicles

Session Code: G101

Room 146 AB

Session Time: 2:30 p.m.

This session focuses on technologies for vehicle-to-vehicle communications and their applications to safety and driver assistance. Vehicle-to-Infrastructure technologies and applications may also be presented, as well as topics related to human factors guideline development, and potential influence on future regulations on active safety

Organizers - Sue Bai, Honda; Joshua Fikentscher, NHTSA

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	Future Mobility
		Matthew Smith, Michigan Dept. of Transportation
2:45 p.m.	ORAL ONLY	Connected and Automated Vehicles in Columbus Smart City Challenge
		Kevin Dopart, US Dept. of Transportation
3:00 p.m.	ORAL ONLY	V2V Communications: Next Steps for NHTSA Research
		Bob Kreeb, NHTSA
3:15 p.m.	ORAL ONLY	Connected vehicle deployment models and spectrum allocation
		John Kenney, Toyota Info Technology Center
3:30 p.m.	ORAL ONLY	Connected Cars and Motorcycles - How to Bring Motorcycle Safety to a New Level
		Markus Tobias Bauer, BMW Group
3:45 p.m.	ORAL ONLY	Autonomous Vehicles: From the Driver's Seat
		Chris Mullen, State Farm Insurance Co.
4:00 p.m.	ORAL ONLY	Shaping the Future of Mobility
		Christopher Borroni-Bird, Qualcomm Inc.

Wednesday, January 25

Session Time:

Light Duty GHG/CAFE

Session Code: G207

Room 146 C

In 2016, EPA, NHTSA and CARB jointly issued their Draft Technical Assessment Report, the first formal step in the ¿Midterm Evaluation¿ of upcoming fuel economy and vehicle greenhouse gas (GHG) standards. This session examines the latest research and policy dialogue surrounding it and the Proposed Determination, including: regulatory program status, opportunities and challenges facing the light duty sector, technologies anticipated to play a role through 2025, and consumer choice implications.

10:30 a.m.

Organizers - Kevin Bolon, US Environmental Protection Agency; Kenneth R. Katz, National Hwy Traffic Safety Admin; James Kliesch, American Honda Motor Co. Inc.

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	GM and Industry Developments through 2016, and a Look to the Future
		Barbara Kiss, General Motors LLC
10:50 a.m.	ORAL ONLY	GHG and CAFE: Mazda's unique approach and challenges
		Daniel V. Ryan, Mazda North American Operations
11:10 a.m.	ORAL ONLY	Internal Combustion Engine and Powertrain Developments to Help Meet Current 2025 CAFE/GHG Standards
		Pierre-Jean Cancalon, Honeywell Transportation Systems

11:30 a.m.	ORAL ONLY	Fuel Economy and Today's Vehicle Buyer: Insights from KBB and Autotrader
		Rebecca Lindland, Kelley Blue Book/Cox Automotive
11:50 a.m.	ORAL ONLY	NHTSA¿s CAFE Rulemaking for MY 2022 and Beyond
		James Tamm, NHTSA
12:10 p.m.	ORAL ONLY	EPA's Assessment for the Midterm Evaluation: Technologies and Consumer Acceptance

Michael Olechiw, US Environmental Protection Agency

Wednesday, January 25

Advanced Materials/Lightweighting

Session Code: G208

Room 146 C	Session Time:	2:30 p.m.
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Developments in the realm of lightweight materials for automotive use continue to be announced by the industry and by academia. This session will provide new and updated information on new generation of materials. Additionally, this session will focus on the key topics involved in Life-Cycle-Analysis of light-weight materials including practices and developments in material recyclability.

Organizers - Cheryl Caffrey, US EPA; William J. Joost, Department of Energy; Vinay Nagabhushana, Department Of Transportation

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	The Evaluation of Vehicle Mass Reduction and Material Choice in Life Cycle Assessments: Key Factors and Dynamic Industries
		Troy Hottle, ORISE Post-doctorate Fellow, US EPA Office of Res & Dev
2:50 p.m.	ORAL ONLY	Impact of Advanced Aluminum Materials on Vehicle Mass and Cost and Aluminum End of Life Recycling Study Summary
		Doug Richman, Kaiser Aluminum
3:10 p.m.	ORAL ONLY	Summary of Magnesium Automotive Applications, Global Supply Chain and Environmental Impact
		Timothy W. Skszek, Magna International Inc.
3:30 p.m.	ORAL ONLY	Current Innovations in the North American Steel Industry
		David W. Anderson, Steel Market Development Institute
3:50 p.m.	ORAL ONLY	Improving the Economics and Throughput of Carbon Fiber Composite Manufacturing
		Philip Taynton, Mallinda
4:10 p.m.	ORAL ONLY	Computational Design Challenges for Thermoplastic Carbon Fiber Reinforced Body-in-White Components in a Vehicle Crash Application
		Lennart Keuthage, BMW AG

Lennart Keuthage, BMW AG

Wednesday, January 25

Advanced Automatic Collision Notification

Session Code: G110

Room 147 A

Session Time: 2:30 p.m.

This session focuses on the adoption and implementation of AACN in the U.S. Topics include development and testing of AACN systems, technical telematics considerations, and efforts related to adoption of AACN data by the emergency response and medical communities.

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	OnStar¿s Role in the Continuum of Emergency Response
-		Cathy Bishop, OnStar Corporation
2:45 p.m.	ORAL ONLY	AACN Pilot study with King County EMS, Seattle CIREN Center
		Robert Kaufman, HIPRC
3:00 p.m.	ORAL ONLY	Next Generation AACN: Overcoming Today's Obstacles
		Randall Gellens, Core Technology Consulting
3:15 p.m.	ORAL ONLY	Building the Public Safety Infrastructure
		Trey Forgety, National Emergency Number Associaiton
3:30 p.m.	ORAL ONLY	Engaging 911 and Emergency Medical Services Stakeholders
		Laurie Flaherty, NHTSA Office of EMS
3:45 p.m.	ORAL ONLY	Detecting AACN Communications During Crash Test
		John Martin, NHTSA
4:00 p.m.	Panel	Panel Discussion

Wednesday, January 25

Electric Drive - Infrastructure: The role of Government, OEMs and Others in Funding and Deploying Low Carbon Infrastructure

Session	Code:	G202
Session	Code:	GZUZ

Room 147 B Session	Time: 1	0:30 a.m.
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This session will discuss the current situation and the nexus of government and industry in deploying infrastructure as a necessary component of vehicle regulatory compliance and a societal transformation to low GHG mobility.

Organizers -	Robert Graham, US EPA	Dept. of Energy; Ian Musselman, Continental Automotive; Aaron M. Sobel, US
Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Hydrogen Refueling Infrastructure Status, Opportunities and Challenges
		Robert R. Wimmer, Toyota Motor North America Inc.
10:50 a.m.	ORAL ONLY	Electric Vehicle Charging Corridors: A National Vision
		Andrew Wishnia, Department Of Transportation
11:10 a.m.	ORAL ONLY	Enabling Rapid EV Charging: A Technology Gap Assessment
		Christopher Michelbacher, Department of Energy
11:30 a.m.	ORAL ONLY	State Models for Promoting Electric Vehicle Infrastructure
		Kathryn Zyla, Georgetown University
11:50 a.m.	ORAL ONLY	Financial Performance of Urban and Rural DC Fast Charging Complexes
		Nick Nigro, Atlas Public Policy
12:10 p.m.	ORAL ONLY	Roundtable Discussion with Session Moderator
		Robert Graham, US Dept. of Energy

Wednesday, January 25

Electric Drive - Markets & Vehicles

Session Code: G203

Crashworthiness

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Room 147 B
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Session Time: 2:30 p.m.

Joined by hydrogen fuel cell vehicles, electric drive technology is providing model offerings with zero or near-zero tailpipe emissions. However, adoption rates of these technologies have not progressed as quickly as many ¿ including government regulators ¿ had hoped. We examine electric drive technology, market receptivity, and the role technology policies. Government and industry experts will share perspectives on technology trends, policy objectives and markets incentives, and others items.

Organizers - Robert Bienenfeld, American Honda Motor Co. Inc.; Ahmad Pesaran, US Department of Energy; Michael Safoutin, US Environmental Protection Agency

Time	Paper No.	Title
0-00		Osussium Deservición To Electric Duine Technologue
2:30 p.m.	ORAL ONLY	Consumer Receptivity To Electric Drive Technology
		Alexander Edwards, Strategic Vision Inc.
2:50 p.m.	ORAL ONLY	Updates on Product Offerings and Policies Moderatored by:
		Ahmad Pesaran, US Department of Energy
2:50 p.m.	ORAL ONLY	Overview of PEVs on the Market
		Genevieve Cullen, Electric Drive Transportation Assoc.
3:10 p.m.	ORAL ONLY	Overview of FCVs on the Market
		Robert Bienenfeld, American Honda Motor Co. Inc.
3:30 p.m.	ORAL ONLY	Updates on PEV policies
		Michael J. McCarthy, California Air Resources Board
3:50 p.m.	Panel	Policies to Increase PEV markets
		Moderators - Michael Safoutin, US Environmental Protection Agency Panelists - Michael Berube, US Department of Energy; Robert Bienenfeld, American Honda Motor Co. Inc.; Genevieve Cullen, Electric Drive Transportation Assoc.; Britta Gross, General Motors LLC; Michael J. McCarthy, California Air Resources Board;

Thursday, January 26

Session Code: G107 Room 145 AB Session Time: 8:00 a.m. This session will cover a variety of topics related to vehicle structural designs to improve crashworthiness in various crash modes. Specific topics may include obligue and small overlap crash testing. Associated active and passive occupant restraint systems may be covered. The effects on occupant safety of new materials and joining techniques aimed at lightening or stiffening vehicles may also be covered in this session. Organizers -Jeff Dix, Nissan Motor Co., Ltd.; James Myers, NHTSA Time Title Paper No. ORAL ONLY 8:00 a.m. Results of NHTSA's Latest Oblique Testing James Saunders, NHTSA 8:20 a.m. ORAL ONLY NHTSA's Wheel Chair Safety Testing Aloke Prasad, National Hwy Traffic Safety Admin 8:40 a.m. ORAL ONLY Lower Interior Impacts to B-Pillars and Seatbacks Allison E. Louden, National Hwy Traffic Safety Admin

9:00 a.m.	ORAL ONLY	Comparison of frontal crash modes: IIHS small overlap and NHTSA oblique
		Rebecca Mueller, Insurance Institute for Highway Safety
9:20 a.m.	ORAL ONLY	Challenges and Opportunities in the Oblique Impact
		Kurt Fischer, TRW Vehicle Safety Systems Inc.
9:40 a.m.	ORAL ONLY	THOR update for US and Euro
		Michael Jarouche, Humanetics Innovative Solutions Inc.

Vehicle Technologies to Increase Seat Belt Usage

Session Code: G108

Room 145 AB	Session Time:	10:15 a.m.
RUUIII 143 AB	Session Time:	10:15 a.m.

Presentations in this session focus on analyzing seat belt use trends and evaluating the use of different vehicle technologies designed to increase seat belt usage. Topics cover seat belt interlocks and their associated implementation considerations including test procedures, seat belt reminders and data analysis on seat belt use behavior among the target population for these technologies.

Robert Pheiffer, InterRegs, Ltd.; Carla Rush, DOT/NHTSA Organizers -

Time	Paper No.	Title
10:15 a.m.	ORAL ONLY	Addressing Non-use of Seatbelts by Part-time Users
		Shan Bao, University of Michigan
10:39 a.m.	ORAL ONLY	Effectiveness of Enhanced Seat Belt Reminders (ESBRs) in Increasing Observed Seatbelt Use
		Adele Polson, Westat Inc.
11:03 a.m.	ORAL ONLY	Does Unbelted Safety Requirement Affect Protection for Belted Occupants?
		Jingwen Hu, Univ. of Michigan - Ann Arbor
11:27 a.m.	ORAL ONLY	The Challenges and Technologies of Seatbelt Interlock Systems
		Thomas Messner, Takata Safety Systems
11:51 a.m.	ORAL ONLY	Definition and Proposed Test Procedure(s) for an Interlock System
		Priya Prasad, Prasad Consulting LLC; Scott A. Schmidt, Alliance of Automobile Manufacturers Inc.

Thursday, January 26

Automated Vehicles

Session Code: G102

Room 146 AB

Session Time: 8:00 a.m.

Safety principles and operational guidelines for deploying automated vehicles will be covered in this session. Topics will include discussion on strategies to transition control from driver to vehicle; testing methods and performance metrics used to develop automated driving functions; safety and reliability considerations.

Organizers -	Frank Barickman, Na Automakers Inc.	ational Hwy Traffic Safety Admin; Paul Scullion, Association of Global
Time	Paper No.	Title
8:00 a.m.	ORAL ONLY	CAMP Automated Vehicle Research (AVR) Project Deliverables

Levasseur Tellis, Ford Motor Company

8:20 a.m.	ORAL ONLY	Policy and Self-driving Vehicles
		Several months ago, the National Highway Traffic Safety Administration (NHTSA) proposed new guidance that provides the initial regulatory framework and best practices for highly automated vehicles and self-driving vehicle systems and also asked the public and stakeholders for input on potential policies. Local Motors was proud to answer DOT's call and submitted this letter focused on three areas: low-speed vehicles, vehicle testing and vehicle classifications. It is Local Motors' belief, acted on through the company's launch of Olli, that the initial phases of testing and piloting of highly automated vehicles should focus on low-speed autonomous vehicles, which are poised to offer the most meaningful and safest applications for transportation.
		David Woessner, Local Motors International LLC
8:40 a.m.	ORAL ONLY	SAE Level 3 automated vehicles: Driver take-over transition control strategies
		Dushyant Wadivkar, Robert Bosch LLC
9:00 a.m.	ORAL ONLY	Level 2 Mixed-Function Automation Naturalistic Driving Study
		Myra Blanco, Virginia Tech. Transportation Institute
9:20 a.m.	ORAL ONLY	Federal Automated Vehicle Policy
		Joshua Fikentscher, NHTSA
9:40 a.m.	ORAL ONLY	A Method for Evaluating Automated Vehicle Safety
		John Martin, NHTSA; Sughosh J. Rao, Scott Schnelle, Transportation Research Center Inc.; Frank Barickman, National Hwy Traffic Safety Admin; Joshua L. Every, Transportation Research Center Inc.; Bowen Weng, Transportation Research Center Inc

Deploying Connected Vehicles

Session Code: G103

Room 146 AB

Session Time: 10:15 a.m.

This session will give the SAE attendees an update on the Connected Vehicle Pilot Deployment Program. In September 2015, Secretary Foxx announced that New York City, Wyoming, and Tampa, FL were selected to pilot next-generation transportation technology under the Connected Vehicle Pilot Deployment Program. As of September 2016, the three pilot sites have completed the concept development phase and have moved on to the design and test phase.

Organizers - Kate Hartman, Federal Highway Administration; Randa Radwan, Citizant Inc

Time	Paper No.	Title
10:15 a.m.	ORAL ONLY	Overview of the Connected Vehicle Pilot Deployment Program
		Kate Hartman, Federal Highway Administration
10:40 a.m.	ORAL ONLY	Challenges to large scale Connected Vehicle Deployment in the Urban Environment, New York City's Connected Vehicle Project: 8,000 vehicles, 400 Roadside Units, 12 Safety Applications
		Robert G. Rausch, Transcore LP
11:05 a.m.	ORAL ONLY	Improving Safety and Freight Operations in Rural Corridors using Connected Vehicle Technology: Update from Wyoming CV Pilot
		Deepak Gopalakrishna, ICF International Inc.
11:30 a.m.	ORAL ONLY	Vehicle to infrastructure Deployment in Tampa ¿ The Need for Coordination between Automakers and Infrastructure Owners
		Bob Frey, Tampa Hillsborough Expressway Authority; Stephen Novosad, HNTB Corp.

11:55 a.m.PanelModerated DiscussionOrganizers -Kate Hartman, Federal Highway Administration

Thursday, January 26

SAE Plenary Session: Smart Cities: What are They and How Do We Get There?

Session Code: G400

Room 146 AB

Time

Session Time: 3:00 p.m.

This plenary session will focus on the U.S. Department of Transportation¿s smart city challenge to help cities define what it means to be a ¿Smart City¿ and what it means for the future of the automotive industry. The dialogue will incorporate a panel discussion of transportation policy, funding, and technological initiatives with the integration of autonomous and connected vehicles, as well as, sensor technology. To achieve the national status of a ¿Smart City,¿ a city will need to leverage its¿ initiatives through a fully collaborative effort among the public, private and nonprofit sectors. The panel will provide examples of international initiatives, as well as, domestic public-private partnerships that have been fostering transportation policy and automotive technology integration over the last several years.

Moderators - Reuben Sarkar, US Dept. of Energy

Panelists - John Augustine, Department Of Transportation; Carla Bailo, Ohio State University; Christopher A. Hart, National Transportation Safety Board; Ian Yarnold, Department For Transport; David Zipper, 1776;

Paper No. Title ORAL ONLY Learn More About the Speaker Christopher A. Hart, National Transportation Safety Board ORAL ONLY Learn More About the Speaker David Zipper, 1776 ORAL ONLY Learn More About the Speaker Ian Yarnold, Department For Transport ORAL ONLY Learn More About the Speaker John Augustine, Department Of Transportation ORAL ONLY Learn More About the Speaker Reuben Sarkar, US Dept. of Energy ORAL ONLY Learn More About the Speaker Carla Bailo, Ohio State University

Thursday, January 26

Panel Discussion: Reconciling Competing Visions on Mobility

Session Code: G209

Room 146 C Session Time: 8:00 a.m.

A moderated panel featuring government planners, NGOs, and industry discussing the different, and often competing ideas on what sustainable mobility looks like? Will it be dominated by a move towards Public transit, or will autonomous personal mobility capture the market. What other technologies, policies, and mobility options may emerge and what role does city and state planning play in the outcome?

Organizers - William P. Chernicoff, Toyota Motor North America Inc.; Kristin S. Kenausis, US EPA; Rachael Nealer, US Department of Energy

Moderators - Russ Brooks, Transportation for America

Panelists - Emily Castor, Lyft; Jim Tymon, AASHTO; Vincent Valdes, Department Of Transportation; Jonathan Weinberger, Alliance of Automobile Manufacturers Inc.;

On-demand Mobility & Autonomous Vehicles

Session Code: G210

Room 146 C Session Time: 10:15 a.m.

The session will discuss the current state of research and discuss the policy and how regulations may impact this growing mode of transportation. What might the future of this technology look like, how will autonomous technology play a role, and what regulatory and policy changes are needed

Organizers -David Anderson, Department of Energy; John Eichberger, The Fuels Institute; Aaron C. Hula, US Environmental Protection Agency

Time	Paper No.	Title
10:15 a.m.	ORAL ONLY	Maximizing Autonomous Vehicle Potential: Public and Private Sector Coordination
		Avery Ash, Inrix Inc.
10:35 a.m.	ORAL ONLY	Energy Impacts of Connected and Automated Vehicles
		David Gohlke, US Department of Energy
10:55 a.m.	ORAL ONLY	Autonomous Vehicles and Tailpipe Emissions
		Josuha Goldman, Union of Concerned Scientists
11:15 a.m.	ORAL ONLY	Research Coordination to Achieve Policy Goals
		Katherine Kortum, Transportation Research Board
11:35 a.m.	ORAL ONLY	The World Changes: Autonomous Driving Will Give the Change of Urban Mobility a Big Push
		Markus Tobias Bauer, BMW Group
11:55 a.m.	ORAL ONLY	SAFE¿s Commission on AV Testing and Safety Outlines Industry- Led Framework for Safe and Expeditious Deployment
		Robert C. Lange, Exponent

Thursday, January 26

What's Next for Heavy Duty?

G200 Session Code:

Session Time: 8:00 a.m. Room 147 A

With publication of the final Phase 2 Greenhouse Gas rules for Medium and Heavy Duty Vehicles, future fuel economy and GHG targets have been established. Petitions for lowering NOx emissions in the future however ensure that the emissions debate will continue. This session will sort out the next decade for medium and heavy-duty vehicle technology, providing perspectives on proposals for more stringent standards and lower GHG, legacy fleet considerations and fuel and technology choices.

Allen Schaeffer, Diesel Technology Forum; Houshun Zhang, EPA Organizers -

Paper No.	Title
ORAL ONLY	Update on US EPA's Recent Regulatory Activities Related to On- highway Heavy-duty Vehicles and Engines
	Matthew W. Spears, US EPA
ORAL ONLY	View from the Northeast States
	Matt Solomon, NESCAUM
ORAL ONLY	Challenges and Pathways to New Emissions and Fuel Efficiency Regulations
	Steve Berry, Volvo Group
ORAL ONLY	The Confidence in Freight Efficiency Technologies
	Michael D. Roeth, NACFE
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9:00 a.m.	ORAL ONLY	Emission Control Technologies for Meeting Future Ultra-Low NOx Standards
		Rasto Brezny, Manufacturers of Emission Controls Assoc.
9:15 a.m.	ORAL ONLY	SuperTruck II: Making Trucks Greater Again
		Roland M. Gravel, US Dept. of Energy
9:30 a.m.	Panel	Roundtable Discussion

Commercial Vehicle Safety

Session Code: G111

Room 147 A	Session Time:	10:15 a.m.

This session will feature a variety of current and future research areas that can assist industry and government stakeholders understand the technologies as applied in the real-world. The main focus areas will address current crash avoid and next generation crash avoidance and mitigation technologies, the path to automated commercial vehicles, other future safety technologies and research on platooning.

Organizers - Leigh S. Merino, Motor & Equipment Mfrs Association; George Reagle; Alrik L. Svenson, NHTSA

Time	Paper No.	Title
10:15 a.m.	ORAL ONLY	Field Study of Heavy-Vehicle Crash Avoidance Systems
		Alrik L. Svenson, NHTSA
10:35 a.m.	ORAL ONLY	Roadmap to Commercial Vehicle Automated Technologies
		Frederick Andersky, Bendix Commercial Vehicle Systems LLC
10:55 a.m.	ORAL ONLY	Truck Safety Technology: Looking to the Future
		Ananda Pandy, WABCO North America
11:15 a.m.	ORAL ONLY	Assessing the Feasibility of Deploying Partial Automation for Truck Platooning
		Osman Altan, US Dept. of Transportation
11:35 a.m.	ORAL ONLY	NTSB¿s 2017 `Most Wanted¿ for Commercial Vehicles
		Robert Molloy, NTSB
11:55 a.m.	Panel	Open Discussion/Questions

Thursday, January 26

Panel Discussion: TSCA Implementation and Next Steps

Session Code: G204

Room 147 B Session Time:	8:00 a.m.
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This panel will cover the policies & guidances developed for the newly signed TSCA. Also it will examine the updates in the 2014 TSCA Work Plan to see what the first outputs from TSCA will be and any next steps on how it will be implemented from both the industry and government perspectives.

Organizers - Daniel J. Selke, Mercedes-Benz USA LLC; Nakia Simon, FCA US LLC

Moderators - Maureen F. Gorsen, Alston & Bird LLP

Panelists - Mark Duvall, Beveridge & Diamond PC; Laurie Holmes, Motor & Equipment Mfrs Association; Jeff Morris, US Environmental Protection Agency; Stacy Tatman, Alliance of Automobile Manufacturers Inc.; Mike Walls, American Chemistry Council;

Beyond TSCA & Next Steps

Session Code: G205

Room 147 B

Session Time: 10:15 a.m.

By reducing GHG and adding ZEV vehicles, OEMs are looking at various new technologies that may require rare precious materials, or ones difficult to recycle / dispose of in their end-of-life cycle. This session addresses several environmental issues (e.g. flame retardants) and will focus on opportunities to explore potential solutions unique to the automotive industry.

Organizers -Daniel J. Selke, Mercedes-Benz USA LLC; Nakia Simon, FCA US LLC

Time	Paper No.	Title
10:15 a.m.	ORAL ONLY	Test Procedures for Evaluation of Interior Materials Flammability
		Barbara Hennessey, NHTSA
10:45 a.m.	ORAL ONLY	Impact of FMVSS 302 on TSCA - Industry Perspective
		Scott A. Schmidt, Alliance of Automobile Manufacturers Inc.
11:15 a.m.	ORAL ONLY	Recycling of automotive Li-lon batteries - Government Perspective
		Linda Gaines, Argonne National Laboratory
11:45 a.m.	ORAL ONLY	Recycling of automotive Li-lon batteries - Industry Perspective
		Roger Miksad, Wiley Rein LLP

Friday, January 27

Pedestrian Safety

Session Code: G	109
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Room 145 AB	Session Time:	10:15 a.m.
		10.10 u.m.

This session will cover all aspects of pedestrian safety (vehicle crashworthiness, PAEB, infrastructure). This includes research programs aimed at the safety of pedestrians. Presentations will also cover in-vehicle pedestrian detection and avoidance systems. Other presentations will cover vehicle crashworthiness designed to protect pedestrians in the event of a crash, and their effects on vehicle styling. Pedestrian ATDs are covered in this session. Outreach efforts to reduce pedestrian exposures to collisions may be covered.

Ana M. Meuwissen, Robert Bosch LLC; Jennifer Morrison, National Transportation Safety Board Organizers -

Time	Paper No.	Title
10:15 a.m.	ORAL ONLY	<i>Objective Test Procedures for Pedestrian Automatic Emergency Braking Systems</i>
		Heath Albrecht, VRTC/TRC
10:40 a.m.	ORAL ONLY	Real-World Pedestrian Crashes ¿ Injury Trends and Fatality Risks
		Peter Grant Martin, National Hwy Traffic Safety Admin; Melissa R. Pfeiffer, MRP Consulting
11:05 a.m.	ORAL ONLY	From Collision Avoidance to Big Data
		Uri Tamir, Mobileye
11:30 a.m.	ORAL ONLY	Path to Safer Mobility
		Boris Shulkin, Magna
11:55 a.m.	ORAL ONLY	Car-to-Cyclist Accidents from the Car Driver's Point of View
		Anja Schneider, Thorsten Leonhardt, Audi AG

Friday, January 27

Room 146 AB		Session Time: 9:00 a.m.	
Time	Paper No.	Title	
9:00 a.m.	ORAL ONLY	Learn More About the Keynote	
		Nathaniel Beuse, National Hwy Traffic Safety Admin	
		Friday, January 27	
Crash Avoidanc	e Technology		
Session Code:	G104		
Room 146 AB		Session Time: 10:15 a.m.	
	Presentations on new technologies and the implementation of new solutions to mitigate vehicle collisions will be given in the session. Topics may include driver assistance and strategies to limit false alarms. Presentations on longer term technologies for vehicles of the future may also be given.		
Organizers -	Elizabeth Mazzae, National Hwy Traffic Safety Admin; Rini Sherony, Toyota Motor Corp.		
Time	Paper No.	Title	
10:15 a.m.	ORAL ONLY	Recent NHTSA Lane Keeping Support Research	
		Taylor Manahan, Department Of Transportation	
10:35 a.m.	ORAL ONLY	Analysis of the Run-Out-of-Lane Problem Using Real-World Crash Data	
		Joshua Fikentscher, NHTSA	
10:55 a.m.	ORAL ONLY	AAA's Testing Protocols for Blind Spot Monitoring and AEB Systems	
		Gregory D. Brannon, AAA American Automobile Association	
11:15 a.m.	ORAL ONLY	Intersection Advanced Driver Assistance System: Scenarios and Benefit Estimation	
		Rini Sherony, Toyota Motor Corp.	
11:35 a.m.	ORAL ONLY	Recent NHTSA Research on Rear Automatic Braking	
		Elizabeth Mazzae, National Hwy Traffic Safety Admin; George Scott Baldwin, Adam Andrella, Transportation Research Center Inc.	
		Frider, January 07	

Friday, January 27

Global Harmonization

Session Code: G201

Room 147 A

Session Time: 10:15 a.m.

This session will address progress being made in harmonizing regulations, standards and compliance structures in the US and other countries in emissions, environment, safety and security activities. Case studies of are included to showcase the challenge and best practice opportunities in global harmonization that could be transferable to future efforts.

Organizers - Laurie Holmes, Motor & Equipment Mfrs Association; Arman Tanman, US Environmental Protection Agency; Stacy Tatman, Alliance of Automobile Manufacturers Inc.

Time	Paper No.	Title
10:15 a.m.	ORAL ONLY	Industry Perspectives on Possible Further Improvements to the 98 Agreement GTR Process
		Spott A Sobmidt Alliance of Automobile Manufacturers Inc

Scott A. Schmidt, Alliance of Automobile Manufacturers Inc.

10:35 a.m.	ORAL ONLY	The Automotive Regulatory Framework and the Challenges of Global Harmonization
		Henrique Martins, Mahindra North American Technical Center
10:55 a.m.	ORAL ONLY	Trade Negotiations & Regulatory Harmonization - Recommendations for the New Administration
		Jennifer Thomas, Alliance of Automobile Manufacturers Inc.
11:15 a.m.	ORAL ONLY	SAE: the Driving Force in Global Cybersecurity Standards
		Timothy Weisenberger, SAE International
11:35 a.m.	ORAL ONLY	Horizon 2020 as a model for innovation in regulation benchmarking
		Amandine Muskus, Association of Global Automakers Inc.
11:55 a.m.	ORAL ONLY	Role of Government in Global Harmonization
		Martin Koubek, DOT/NHTSA

Friday, January 27

Panel Discussion: Liquid Fuels

Session	Code:	G206

Room 147 B

Session Time: 10:15 a.m.

The vast majority of vehicles on the road today are powered by liquid fuels, and forecasts project liquid fuel-powered internal combustion engines will continue to be in the mainstream for the next several decades. As fuel evolution progresses, we must consider how these altered fuels might affect legacy vehicles, integrate with the existing distribution system and satisfy consumer preferences and behaviors. This session will address current and future state fuels and their impact on technology

Organizers - Paul N. Argyropoulos, US Environmental Protection Agency; John Eichberger, The Fuels Institute; Michael Weismiller, Department of Energy

Time	Paper No.	Title	
10:15 a.m.	ORAL ONLY	Key Elements and Barriers for Future Fuels	
		Michael McAdams, Advanced Biofuels Association	
10:25 a.m.	ORAL ONLY	Biomass-Based Diesel: Advancing de-carbonization in the liquid fuel marketplace	
		Daniel Oh, Renewable Energy Group Inc.	
10:35 a.m.	ORAL ONLY	What's New with Diesel Combustion and Fuels?	
		Charles Mueller, Sandia National Laboratories	
10:45 a.m.	ORAL ONLY	A Retailers Perspective on Changing the Liquid Fuel Mix	
		Mike Lorenz, Sheetz Inc.	
10:55 a.m.	ORAL ONLY	Fuel Properties for Advanced Clean High-Efficiency IC Engines	
		Arun Solomon, General Motors	
11:05 a.m.	Panel	Panel Discussion	